

### ***Refrigeration Temperature Control***

## ELIWELL TEMPERATURE CONTROLS

### How to supply a Temperature Control System for Medium or Low Temperature Control applications!

Since 1980 Eliwell has supplied the Refrigeration Industry worldwide with quality Temperature Controllers based on the pioneering 32 X 74mm Front Panel format.

Eliwell has developed the ID Controllers for Medium Temperature applications and Low Temperature Applications.

### The ID Temperature Controller Range

#### Medium Temperature System

A medium temperature system will normally operate around 4°C or similar, but certainly above 0°C. This system will normally have only 1 temperature probe connected, and this probe would be measuring the cabinet temperature for accurate control of the compressor or a solenoid valve that would deliver provide cooling to the system.

#### Defrost:

The defrost is controlled only by time. The time is set for the interval before defrost starts and the duration of the defrost. During defrost the relay (compressor or solenoid valve) is off.

#### Low Temperature System

A low temperature system will normally operate around -18°C or similar, but certainly below 0°C. This system will normally have only 2 temperature probes connected, and one probe would be measuring the cabinet temperature for accurate control of the compressor or a solenoid valve that would deliver provide cooling to the system.

#### Defrost:

The second temperature probe would be installed on the evaporator to measure the temperature of the evaporator to control the defrosting of the system based on the evaporator temperature. Defrost can start by time and is completed by the duration set or the evaporator temperature (e.g.: 2°C).

*Q: Which company was the first to market the revolutionary small scale, big feature Temperature Controller?*

*A: Eliwell Controls was established in 1980 in Italy, and pioneered the current popular 32 X 74 mm Front Panel employed by the Refrigeration Industry!*



Refrigeration Controls can be separated into two specific specifications.  
Medium Temperature Control for Cool-rooms at around 2 to 6°C and Low  
Temperature Control for Freezers at around -18 °C to -2 °C.

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Medium Temperature Control for Cool-rooms -50 to 110°C

What do I need to provide a Medium Temperature Control Cool Room solution?



**Stokes ID961AC240** - Requires 240VAC Power Supply

1 X ID961 (ID16DI0XCH700) 240VAC 1 NTC/PTC Probe  
1 Relay Output

1 X PROBE NTC SILICONE 3 M LONG (SN8S0A3000)

**Stokes ID961ACDC12** - Requires 12V DC Power Supply

1 X ID961 (ID16DI0XCH300) 12VAC/DC  
1 NTC/PTC Probe 1 Relay Output

1 X PROBE NTC SILICONE 3 M LONG (SN8S0A3000)

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Low Temperature Control for Freezers

What do I need to provide a Low Temperature Control Freezer solution?



**Stokes ID974AC240** - Requires 240VAC Power Supply

1 X ID974 (ID23DI0XCH700) 240VAC 2 NTC/PTC Probes  
2 Relay Outputs

2 X PROBE NTC SILICONE 3 M LONG (SN8S0A3000)

**Stokes ID974ACDC12** - Requires 12V DC Power Supply

1 X ID974 (ID23DI0XCH300) 12VAC/DC 2 NTC/PTC  
Probes 2 Relay Outputs

2 X PROBE NTC SILICONE 3 M LONG (SN8S0A3000)

\*\* Low Temperature Systems will normally have a probe  
to measure Cabinet Temperature and a second probe to  
measure Evaporator Temperature for both  
Time/Temperature Defrost.

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